



FACILITY COMPLIANCE INSPECTION REPORT

Division of Waste Management Solid Waste Section

UNIT TYPE:

Lined MSWLF		LCID		YW		Transfer		Compost		SLAS		COUNTY: CATAWBA PERMIT NO.: 18-12 FILE TYPE: COMPLIANCE
Closed MSWLF		HHW		White goods		Incin		T&P		FIRM		
CDFL		Tire T&P / Collection		Tire Monofill		Industrial Landfill	X	DEMO		SDTF		

Date of Site Inspection: June 19, 2012

Date of Last Inspection: April 23, 2012

FACILITY NAME AND ADDRESS:

Duke Energy Carolinas, LLC - Marshall Steam Station
Industrial Landfill No. 1
8320 East NC Highway 150
Terrell, North Carolina 28682

GPS COORDINATES: N: 35.60463 W: -80.9774

FACILITY CONTACT NAME AND PHONE NUMBER:

Donna Burrell, Environmental Coordinator
Duke Energy Carolinas, LLC
(828) 478-7820
donna.burrell@duke-energy.com

FACILITY CONTACT ADDRESS:

Registered Agent: CT Corporation System
150 Fayetteville Street, Box 1011
Raleigh, NC 27601

Principal Office: Duke Energy Carolinas, LLC
526 South Church Street
Charlotte, NC 28202-1904

PARTICIPANTS:

Donna Burrell, Duke Energy Carolinas, LLC – Environmental Coordinator
Tim Hunsucker, Duke Energy Carolinas, LLC – Senior Scientist
Chuck Campbell, Duke Energy Carolinas, LLC – Science Technician
Elizabeth Werner, Permitting Hydrogeologist - NCDENR Solid Waste Section
Deb Aja, NCDENR Solid Waste Section

STATUS OF PERMIT:

Active.

INDUSTRIAL WASTE LANDFILL FACILITY: PERMIT NO. 18-12	Date Issued
Permit to Construct Phase 1	February 25, 2010
Permit to Operate Phase 1 – Cells 1 and 2 issued, revisions to Operations Plan and revisions to the Leachate Force Main design. Permit to Construct Phase 1 – Cells 3 and 4	March 7, 2011

PURPOSE OF SITE VISIT:

Partial Inspection – Environmental Monitoring.

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STATUS OF PAST NOTED VIOLATIONS:

None.

OBSERVED VIOLATIONS

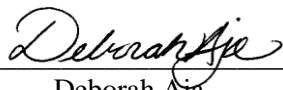
None.

The item(s) listed above were observed by Section staff and require action on behalf of the facility in order to come into or maintain compliance with the Statutes, Rules, and/or other regulatory requirements applicable to this facility. Be advised that pursuant to N.C.G.S. 130A-22, an administrative penalty of up to \$15,000 per day may be assessed for each violation of the Solid Waste Laws, Regulations, Conditions of a Permit, or Order under Article 9 of Chapter 130A of the N.C. General Statutes. Further, the facility and/or all responsible parties may be subject to enforcement actions including penalties, injunction from operation of a solid waste management facility or a solid waste collection service and any such further relief as may be necessary to achieve compliance with the North Carolina Solid Waste Management Act and Rules.

ADDITIONAL COMMENTS

1. An on-site review was conducted of environmental monitoring points associated with Solid Waste Permit Number 18-12 for the Industrial Landfill.
2. The landfill is permitted to receive fly ash, bottom ash, flue gas desulfurization (FGD) gypsum, FGD clarifier sludge, asbestos material, land clearing and inert debris, coal mill rejects, waste limestone material, boiler slag, construction and demolition waste, sand blast material, ball mill rejects, coal waste, and pyrites that are generated at the Marshall Steam Station. The waste stream is comprised predominantly of ash.
3. A leak detection system (LDS) has been incorporated into the design of the landfill. The LDS consists of a secondary 60 mil HDPE liner system overlain by a secondary geocomposite drainage layer connected to an LDS sump. Flow collected in the sump is transferred to the active ash basin via the leachate force main.
4. The leachate management system and leachate detection system control panels were inspected and appeared to be maintained in good condition. During the April 23, 2012 inspection facility staff operated the test function for visual and audible alarms on the leachate management system - the alarm system appeared to be operating as designed.
5. Leachate is sampled semiannually from dedicated sample ports located on the leachate collection system.
6. The sample port for Cell 1 was inspected and appeared to be maintained in good condition.
7. Access to the sampling ports for Cell 1 and Cell 2 and the areas surrounding the ports were well maintained.
8. Landfill gases are not expected to be generated by the wastes accepted at the facility and are not monitored.

Please contact me if you have any questions or concerns regarding this inspection report.



Deborah Aja
Environmental Senior Specialist
Regional Representative
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2090 US Hwy 70
Swannanoa, NC 28778

Sent on June 25, 2012, to:	X	Email		Hand delivery		US Mail		Certified No.
Donna Burrell, Duke Energy Carolinas, LLC by;								

Ec: Jason Watkins, Western District Supervisor
Jessica Montie, Compliance Officer
Elizabeth Werner, Permitting Hydrogeologist
Larry Frost, Regional Permitting Engineer